

Fig. 1

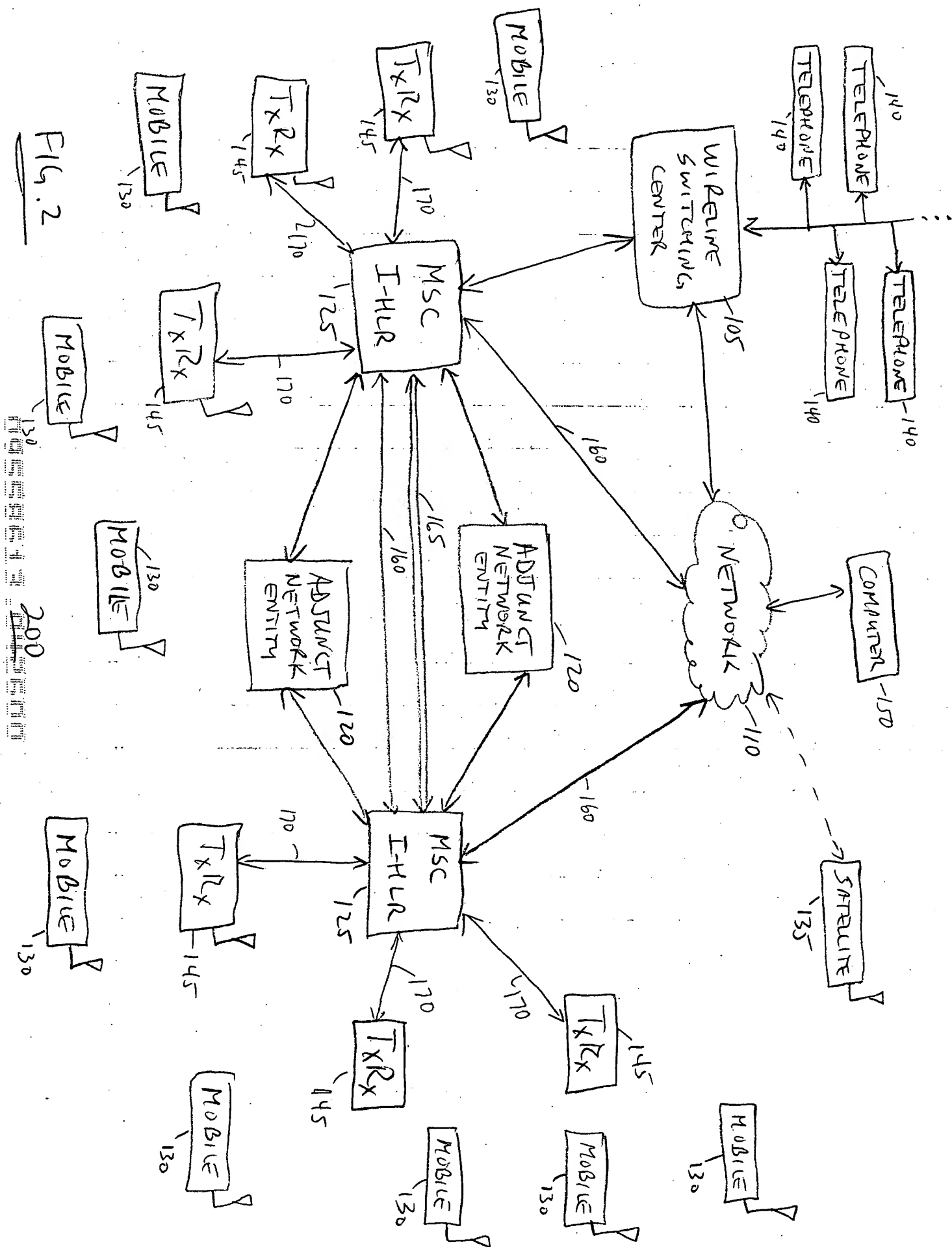


Fig. 2

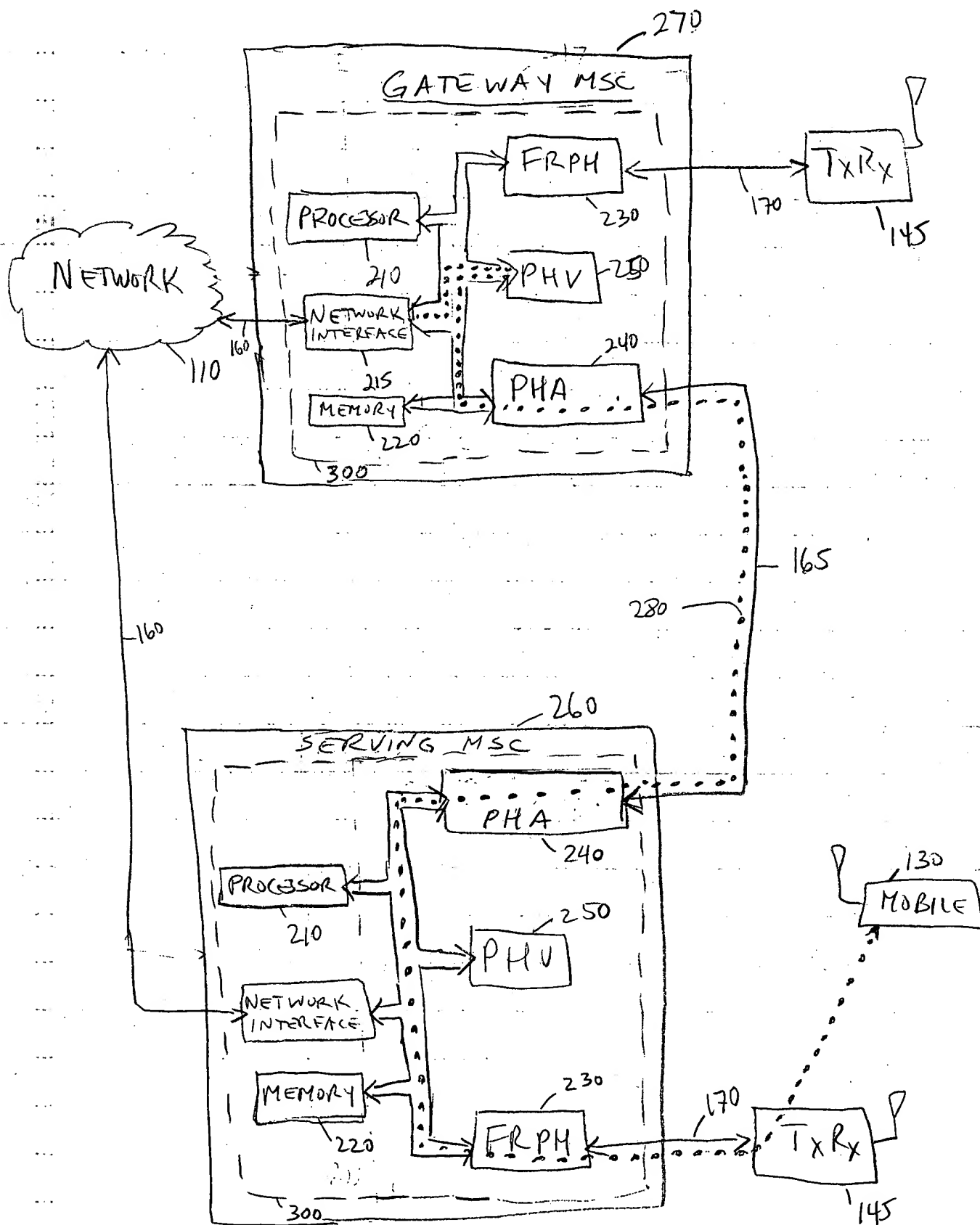


FIG. 3

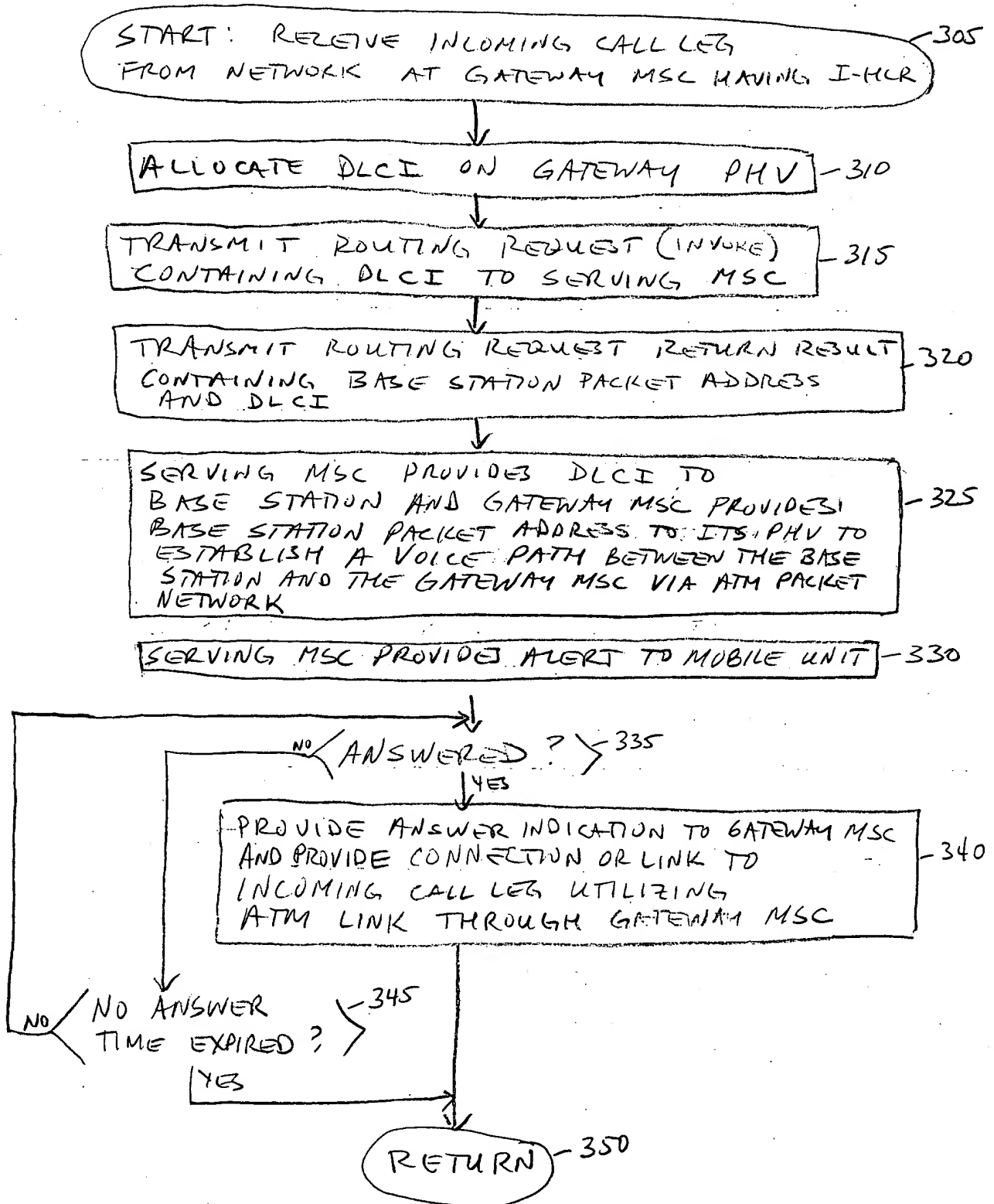


FIG. 4

START: VIA BASE STATION, SERVING
MSC RECEIVES ORIGINATION WITH DIALED
DIGITS FROM MOBILE UNIT

400

SERVING MSC DETERMINES FROM VLR THAT
MOBILE UNIT HAS GATEWAY ORIGINATION
TRIGGER

405

SERVING MSC TRANSMITS GATEWAY ORIGINATION
REQUEST (INVOKES) TO GATEWAY MSC (WITH I-MLR)
CONTAINING MOBILE ID, DIALED DIGITS, AND
BASE STATION PACKET ADDRESS

410

GATEWAY MSC (WITH I-MLR) ALLOCATES DLCI
ON PHV AND PROVIDES PHV WITH BASE
STATION ADDRESS

415

GATEWAY MSC (WITH I-MLR) TRANSMITS
GATEWAY ORIGINATION REQUEST RETURN
RESULT CONTAINING DLCI TO SERVING MSC

420

SERVING MSC PROVIDES DLCI TO THE BASE
STATION TO ESTABLISH A VOICE PATH
BETWEEN THE BASE STATION AND THE GATEWAY MSC
VIA THE ATM PACKET NETWORK

425

GATEWAY MSC SETS UP OUTGOING CALL
BASED ON SUBSCRIBER DATA AND DIALED
DIGITS, WITH A CONNECTION OR LINK
BETWEEN PACKET (ATM) VOICE PATH
AND OUTGOING CALL

430

RETURN

435

FIG. 5

FIG. 6

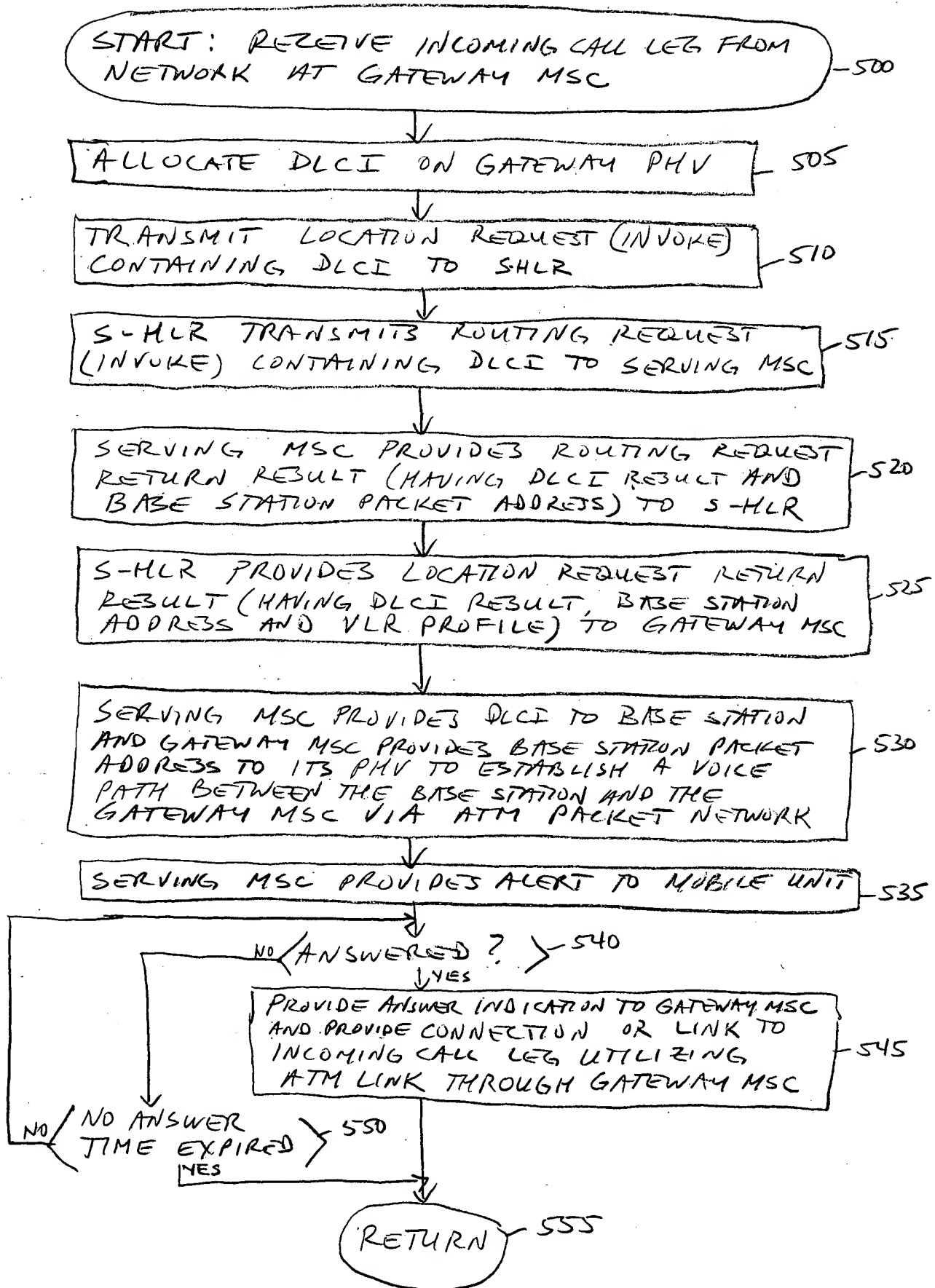


FIG. 7

START: VIA BASE STATION, SERVING MSC RECEIVES ORIGINATION WITH DIALED DIGITS FROM MOBILE UNIT -600

SERVING MSC DETERMINES FROM VLR THAT MOBILE UNIT HAS GATEWAY ORIGINATION TRIGGER -605

SERVING MSC TRANSMITS (VIA S-HLR) GATEWAY ORIGINATION REQUEST (INVOKE) TO GATEWAY MSC CONTAINING MOBILE ID, DIALED DIGITS, AND BASE STATION PACKET ADDRESS -610

GATEWAY MSC ALLOCATES DLCI ON ITS PHV AND PROVIDES PHV WITH BASE STATION / PACKET ADDRESS -615

GATEWAY MSC TRANSMITS (VIA S-HLR) A GATEWAY ORIGINATION REQUEST RETURN RESULT CONTAINING THE DLCI TO THE SERVING MSC -620

SERVING MSC PROVIDES DLCI TO THE BASE STATION TO ESTABLISH A VOICE PATH BETWEEN THE BASE STATION AND THE GATEWAY MSC VIA THE ATM PACKET NETWORK -625

YES / GATEWAY MSC HAVE (CURRENT) VLR PROFILE FOR MOBILE UNIT? -630

NO

GATEWAY MSC TRANSMITS QUALIFICATION REQUEST (INVOKE) TO S-HLR TO OBTAIN VLR -635

S-HLR TRANSMITS QUALIFICATION REQUEST RETURN RESULT CONTAINING VLR PROFILE TO GATEWAY MSC -640

GATEWAY MSC SETS UP OUTGOING CALL BASED UPON SUBSCRIBER DATA AND DIALED DIGITS, WITH A CONNECTION OR LINK BETWEEN THE PACKET (ATM) VOICE PATH AND THE OUTGOING CALL -645

RETURN -650